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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,489	04/19/2004	Charles A. Mistretta	960296.00092	3311
26710 75	590 03/01/2006		EXAM	INER
QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE			КАО, СНІН	CHENG G
SUITE 2040	NSINAVENOE		ART UNIT	PAPER NUMBER
MILWAUKEE, WI 53202-4497			2882	

DATE MAILED: 03/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Q-			
	Application No.	Applicant(s)			
	10/827,489	MISTRETTA ET AL.			
Office Action Summary	Examiner	Art Unit			
·	Chih-Cheng Glen Kao	2882			
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be a d will apply and will expire SIX (6) MONTHS fro te, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 17 F	February 2006.				
	is action is non-final.				
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) ⊠ Claim(s) 2 and 16-18 is/are pending in the ap 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 2 and 16-18 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/	awn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 19 April 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the E	a) accepted or b) objected to e drawing(s) be held in abeyance. So ction is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Applica Drity documents have been received (PCT Rule 17.2(a)).	ition No ved in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:				

DETAILED ACTION

Allowable Subject Matter

1. The indicated allowability of claims 2 and 16-18 is withdrawn in view of the newly discovered reference(s) to Dawson (US Patent 5467377) and Mistretta (US Patent Application 2003/0013953). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson in view of Ooshima (JP 06-125888).

Dawson discloses a method comprising a) producing a beam of x-rays with an x-ray source (fig. 1, #24) and directing it into a region of interest (fig. 1, #12) in accordance with a prescribed scan pattern (fig. 1); and b) detecting (fig. 1, #20) x-rays in the beam after they have passed through the region of interest (fig. 1, #12), wherein the x-ray source is mechanically moved around the region of interest when performing the prescribed scan pattern (fig. 2, R) and a focal point of the beam of x-rays is electronically moved to positions along an axial dimension of the region of interest when performing the prescribed scan pattern (col. 2, lines 43-44); and in

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which steps a) and b) are repeated to acquire an additional set of image data with a second scan

pattern that is interleaved with the prescribed scan pattern (fig. 1).

However, Dawson fails to disclose cone beams.

Ooshima teaches cone beams (title and fig. 7, #17).

It would have been obvious, to one having ordinary skill in the art at the time the

invention was made, to incorporate the method of Dawson with the cone beams of Ooshima,

since one would be motivated to make such a modification for reducing artifacts (abstract,

purpose) as implied from Ooshima and saving time.

3. Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dawson in

view of Ooshima and Mistretta.

For purposes of being concise, Dawson in view of Ooshima suggests a method as recited

above.

However, Dawson fails to disclose transforming attenuation data sets acquired from

spiral scan patterns to a corresponding series of k-space data sets, combining k-space data from

temporally adjacent k-space data sets, and reconstructing an image from the combined k-space

data, wherein the combined k-space data is formed by combining all of the k-space data from

one of said k-space data sets with peripheral k-space data from another, temporally adjacent k-

space data set, and wherein a series of images are produced by combining all of the k-space data

from respective ones of the k-space data sets with peripheral k-space data from temporally

adjacent k-space data.

Mistretta teaches transforming attenuation data sets acquired from spiral scan patterns (fig. 1) to a corresponding series of k-space data sets, combining k-space data from temporally adjacent k-space data sets, and reconstructing an image from the combined k-space data (paragraph 10), wherein the combined k-space data is formed by combining all of the k-space data from one of said k-space data sets with peripheral k-space data from another, temporally adjacent k-space data set, and wherein a series of images are produced by combining all of the k-space data from respective ones of the k-space data sets with peripheral k-space data from temporally adjacent k-space data (paragraph 45).

It would have been obvious, to one having ordinary skill in the art at the time the invention was made, to incorporate the method of Dawson with the transforming of Mistretta, since one would be motivated to make such a modification for reducing artifacts (paragraph 11) as implied from Mistretta.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chih-Cheng Glen Kao whose telephone number is (571) 272-2492. The examiner can normally be reached on M - F (9 am to 5 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571) 272-2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

gk

EDWARD J. GLICK SUPERVISORY PATENT EXAMINER